## **CLAIMS**

Having thus described our invention, what we claim as new and desire to secure by Letters Patent is as follows:

1	1. A method for automatically determining awareness settings among people
2	in a distributed working environment comprising the steps of:
3	receiving real-time data produced by an event; and
4	automatically adjusting a distance according to a level of privacy
5	desired by individual users and a need of a collaborative project to have some
6	shared information about individual user activities using an elastic spring
7	energy model.
1	2. The method for automatically determining awareness settings among
2	people in a distributed working environment recited in claim 1, wherein the
3	step of automatically adjusting a distance is performed by a multi-agent
4	system that automatically and selectively provides perceived information to
5	others based on perceived events or status associated with others.
1	3. The method for automatically determining awareness settings among
2	people in a distributed working environment recited in claim 2, wherein the
3	elastic spring energy model governs reaction of an information system in real
4	time when events or status changes.
1	4. The method for automatically determining awareness settings among
2	people in a distributed working environment recited in claim 2, wherein each
3	agent acts on its user's behalf to adjust an awareness level among different
4	users.

- 5. The method for automatically determining awareness settings among
- 2 people in a distributed working environment recited in claim 1, further
- 3 comprising the step of dividing communications between different users into
- different channels and specifying a clearness level for each channel.
- 1 6. The method for automatically determining awareness settings among
- 2 people in a distributed working environment recited in claim 1, wherein the
- 3 elastic spring model is a dynamic model so that the step of automatically
- 4 adjusting a distance takes into consideration events which happen at each
- 5 user's site.
- 7. The method for automatically determining awareness settings among
- 2 people in a distributed working environment recited in claim 1, wherein the
- 3 elastic spring model takes into consideration a user's frustration level if
- 4 information about the user is revealed to another on the occurrence of a
- 5 particular event.
- 8. The method for automatically determining awareness settings among
- 2 people in a distributed working environment recited in claim 1, wherein the
- 3 elastic spring model determines potential energy vectors which encode a
- 4 user's preference on distances.
- 9. The method for automatically determining awareness settings among
- 2 people in a distributed working environment recited in claim 1, wherein the
- 3 elastic spring model determines potential energy vectors which encode
- 4 awareness requirements for a collaborative task.
- 1 10. The method for automatically determining awareness settings among
- 2 people in a distributed working environment recited in claim 1, wherein the

- 3 elastic spring model determines potential energy vectors which encode a
- 4 user's preference on distances and awareness requirements for a collaborative
- 5 task.
- 1 11. The method for automatically determining awareness settings among
- 2 people in a distributed working environment recited in claim 1, wherein a
- matrix and vector look up model is used to determine the distances among
- 4 distributed users, the values of the matrix and the vector encoding the
- 5 preferences of the user and the preference requirements of the other user who
- 6 receives the awareness information.
- 1 12. The method for automatically determining awareness settings among
- 2 people in a distributed working environment recited in claim 11, wherein the
- matrix and vector additionally encode the preferences of the task and the
- 4 preferences of the organization,